

**Vantage Specialties, Inc.**  
**Gurnee, IL Facility**  
**Proposed Revisions to TRI Data for Ethylene Oxide**

<b>Ethylene Oxide Releases for Revised TRIs (lbs)</b>								
	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>	<b>2013</b>	<b>2012</b>	<b>2011</b>	<b>2010</b>
Total Fugitive Emissions <sup>1</sup>	810.60	414.25	551.84	2003.24	2110.79	2704.51	7984.25	8073.50
Total Point Emissions (R37) <sup>2</sup>	736.55	712.42	725.13	720.13	720.88	720.13	1725.20	1575.81
<b>Total Release<sup>3</sup></b>	<b>1,547</b>	<b>1,127</b>	<b>1,277</b>	<b>2,723</b>	<b>2,832</b>	<b>3,425</b>	<b>9,709</b>	<b>9,649</b>

Notes:

1) Total fugitive emissions represent both speciated EO emissions from the leak detection and repair (LDAR) 3rd party contractor (based on actual monitoring data from components in EO service) and emissions from any fugitive emission events logged at the plant.

2) Emissions for 2012 - 2016 are based on December 2016 stack testing results. The conditions during the December 2016 testing are representative of operating conditions from 2012-2016. Emissions for 2010-2011 are based on batch emission rate calculations and production data for those years. The values listed for all years also include filter blowdowns and other intermittent events (e.g., pressure relief valve lifts) routed to the scrubber.

3) Based on process chemistry and operating procedures, Vantage does not expect any EO to be present in the facility's waste shipments or wastewater.

4) 2017 original TRI submittal had a calculation error for the point emissions. Vantage did not include some controlled emissions. Vantage submitted a revised TRI for RY 2017 on 10/30/18.